LISTING OF CLAIMS

Claims 1-2: (Canceled)

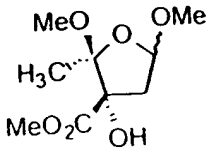
3. (Currently Amended) A process according to claim ~~1~~ 26 wherein said preparation is carried out in the presence of a Bronstead acid or a Lewis acid.

4. (Original) A process according to claim 3 wherein the acid is selected from the group consisting of camphor sulfonic acid, *para*-toluene sulfonic acid, and $BF_3 \bullet Et_2O$.

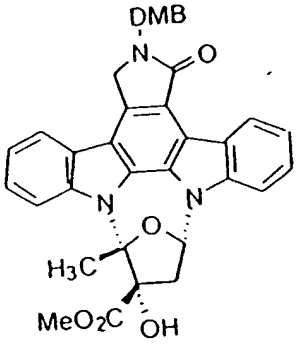
5. (Original) A process according to claim 4 wherein camphor sulfonic acid is used as a catalyst and dichloroethane is used as a solvent.

Claims 6-7: (Cancelled)

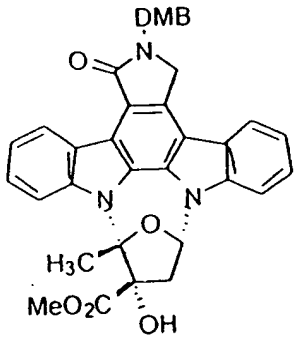
8. (Currently amended) A process according to claim ~~1~~ 26 wherein a furanose of the formula



is reacted with DMB-protected K252c to give two products of the formulae



and

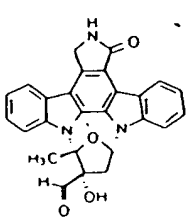
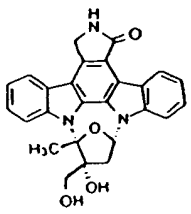
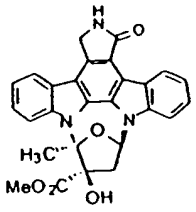


9. (Currently amended) A product prepared according to the process of claim ~~1~~ 26.

10. (Previously presented) A product prepared according to the process of claim 3.

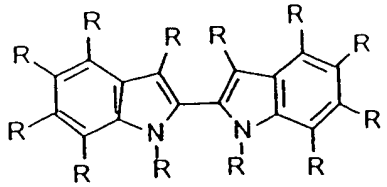
11. (Currently amended) A process according to claim ~~1~~ 26 wherein the furanosylated indolocarbazole prepared is K252a.

12. (Currently amended) A process according to claim ~~1~~ 26 wherein the furanosylated indolocarbazoles prepared are selected from the group consisting of:



and


13. (Currently amended) A process according to claim ~~1~~ 26 wherein the indolocarbazole is prepared by reacting a diazo compound having the ring structure

with a biindole having the ring structure



14. (Original) A process according to claim 13 wherein the reaction is carried out in the presence of a transition metal catalyst in a solvent capable of solvating the reactants.

15. (Original) A process according to claim 13 wherein the coupling reaction is carried out in the presence of a $Rh_2(OAc)_4$ catalyst.

16. (Currently amended) A process according to claim 13 wherein the diazo compound is a diazolactam ~~diazolaactam~~ and the biindole is a 2,2'-biindole.

Claims 17-18: (Canceled)

19. (Currently amended) A process according to claim 27 ~~17~~ wherein the furanosylated indolocarbazole prepared is K252a.

20. (Currently amended) A product produced by the process of claim 27 ~~17~~.

21. (Currently amended) A process according to claim 26 ~~1~~ wherein the indolocarbazole is reacted with an acetal under conditions that promote acetal exchange.

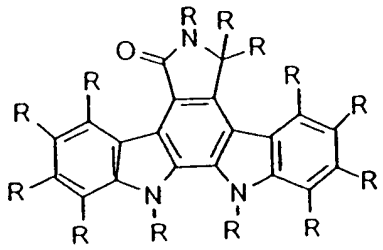
22. (Previously presented) A process according to claim 3 wherein the preparation is carried out in the presence of a Lewis acid.

23. (Currently amended) A process according to claim 27 ~~17~~ wherein the biindole is a 2,2' – biindole.

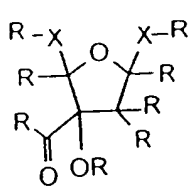
24. (Currently amended) A process according to claim 27 ~~17~~ wherein a Lewis acid is employed.

25. (Canceled)

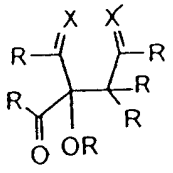
Claim 26. (New) A process for the preparation of furanosylated indolocarbazoles by reacting an indolocarbazole having the ring structure



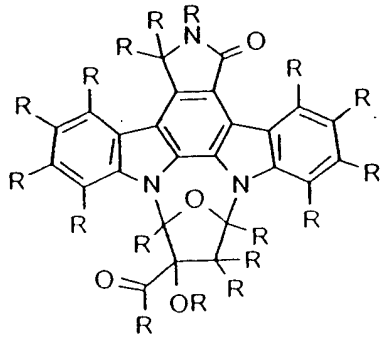
with an acetal having the structure



or



wherein X is O, under conditions that promote acetal exchange or formation to produce a furanosylated product having the ring structure



wherein R is selected from the group consisting of:

hydrogen;

CH3;

OCH3;

3,4-DMB;

PMB;

Bn;

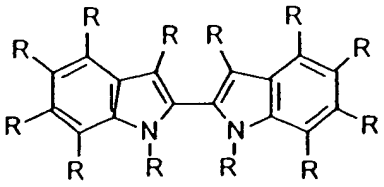
t-Bu;

saturated or unsaturated, branched, linear, or cyclic alkyl, heteroalkyl, aryl, and heteroaryl groups; and mixtures of the foregoing, wherein hetero refers to O, S, N, or P.

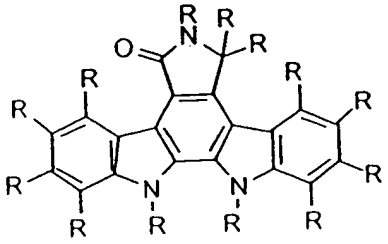
Claim 27. (New) A process for the preparation of furanosylated indolocarbazoles comprising:

reacting a diazo compound having the ring structure

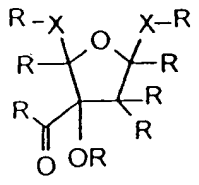
with a biindole having the ring structure



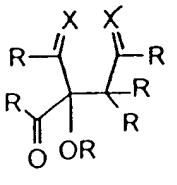
in the presence of a transition metal catalyst in a solvent capable of solvating the reactants, to produce an indolocarbazole having the ring structure



and then reacting the indolocarbazole with an acetal having the structure

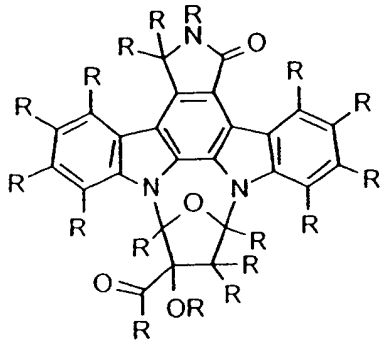


or



wherein X is O;

to produce a furanosylated product having the ring structure



wherein R is selected from the group consisting of:

hydrogen;

CH3;

OCH3;

3,4-DMB;

PMB;

Bn;

t-Bu;

saturated or unsaturated, branched, linear, or cyclic alkyl, heteroalkyl, aryl, and heteroaryl groups; and mixtures of the foregoing, wherein hetero refers to O, S, N, or P.